

ABSTRACT OF THE DISCLOSURE

Each of transmitters includes a condition detecting device for detecting the condition of a corresponding tire, and an acceleration detecting device for detecting the direction of acceleration accompanying rotation of the corresponding tire. Each transmitter wirelessly transmits data containing data representing the condition of the tire and data representing the direction of the acceleration. A repeater receives data from the transmitters provided in front tires or data from the transmitters provided in rear tires. When receiving data from any of the transmitters, the repeater wirelessly transmits a response signal when a predetermined period has elapsed after the reception of the data.

A receiver receives data from the transmitters and the response signal from the repeater. Based on whether the receiver has received the response signal from the repeater after receiving data from one of the transmitters, the receiver determines the position of the tire in which the transmitter that is the source of the data is provided.